

Summary report of stock use in wilderness meadows Sequoia and Kings Canyon National Parks, 2005

Summary

- Reported recreational and administrative stock use during the summer of 2005 totaled **7,155 stock nights**, or 8,766 animal unit nights. This represents a decrease of 5.8% compared to 2004, which had a total of 7,596 stock nights reported.
- Commercial and administrative packers continue to account for the majority of packstock use in the two parks, accounting for 57% and 33%, respectively, of reported use. Private users accounted for the remaining 10%.
- Relative to 2004, reported commercial use increased by 24.8%, while reported private use decreased by 33.8%.
- Administrative use decreased by 27.7% over the previous year.
- Reported use of supplemental feed in lieu of grazing increased among all users relative to 2004. Overall reported use of supplemental feed increased by 14.5%.
- Horses and mules remained the primary type of stock used, accounting for 97.1% of total use. Llama use decreased relative to previous years, accounting for only 0.6% of total use. Reported burro use also decreased, accounting for only 2% of total stock use.

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Introduction

This document provides the 2005 annual summary of reported administrative and recreational saddle and packstock use of the wilderness meadows of Sequoia and Kings Canyon National Parks (SEKI). This information is collected via reporting forms that are distributed to commercial, private, and administrative stock users, and from the wilderness permit database. After each trip all stock users at SEKI are required to provide the information requested on these forms.

Data on stock use of the wilderness meadows of SEKI has been collected in one form or another for over fifty years. In 1986, a standardized approach with accompanying computer database was initiated, and this method, although modified, is still in use today. From this database, yearly summary statistics are prepared and presented in tabular and graph form, and comparison with past years use is presented.

Methods

At the beginning of each field season (May) all commercial and administrative stock users of the wilderness at SEKI are provided forms to document their trips. Private stock users are given a "Stock-Use Card" along with the issuance of their wilderness permit. All stock users are required to respond to the information requested on these forms, which includes:

- 1) Name of packer
- 2) Date of trip
- 3) Packer classification (commercial, administrative, or private)
- 4) Type of stock used
- 5) Number of stock
- 6) Number of people
- 7) Name and location of forage areas where stock grazed
- 8) Number of nights spent in each forage area
- 9) Name of party on wilderness permit

After each trip these forms are completed and returned to the meadow monitoring specialist at SEKI and the information is then entered into a database. This years database file is named "*StockUse05.mdb*", and contains approximately 473 records of various private, commercial, and administrative overnight stock trips.

In previous years (prior to 1998) there was some confusion over the terminology used to calculate use levels presented in the annual stock use report. It appears as though the term stock night had been used interchangeably with animal unit night, and it was not always clear which unit was being referred to. The following definitions are intended to help clarify these terms and to set the stage for the data that follow in the rest of the report.

Conventionally, an overnight stay by a pack animal is defined in terms of a common currency, the *animal unit night*. An *animal unit* is equal to approximately 1,000 pounds of grazing animal; an animal unit night refers to an overnight stay by that animal. In range management almost everything is compared to cows, which at approximately 1,000 pounds are rated at 1.00 animal unit night. According to this system, an overnight stay by a horse or mule is defined as 1.25 animal unit nights. An overnight stay by a burro is 0.50 of an animal unit night, and a llama is 0.35 of an animal unit night. The use of animal unit nights reflects the variation in forage consumed by these different sized animals, and allows for comparison with other grazing systems. An adult horse consumes approximately 25% more forage than an adult cow in a 24 hour period, a llama consumes 35% of that of a cow, and a burro about 50%. Thirty animal unit nights are equal to one *animal unit month* (AUM) which is the amount of dry forage required by

one animal unit for one month based on a standardized forage allowance of 26 pounds per day. The use of these standardized units allows range managers to compare use across systems and to establish grazing capacities based on the varying consumption of forage by different types of animal.

For the purposes of this report, and to make the data accessible to all users, a *stock night* represents an overnight stay by any pack animal, without reference to the more conventional animal unit night. In order to facilitate comparison between years, the statistics that follow are reported in stock nights. Where the data allow, summary figures are reported in both animal unit and stock nights in order to provide as much information as possible. When referring to earlier reports, note that there may be discrepancies in the numbers reported due to use of different terminology. Discussions of grazing capacity, as in the annual Residual Biomass Monitoring Report, always rely on the more conventional animal unit night.

The following figures represent overnight visits by stock only, they do not include stock use from day trips, or drop trips which were completed in one day.

Results

User compliance. Of the 15 commercial pack stations operating in Sequoia and Kings Canyon during 2005 (one concessioner, 14 Incidental Business Permit, or IBP, holders), two submitted their annual stock use reports within a week of the October 31 due date specified in their contract or permit. Four responded following one or two phone calls requesting the delinquent data. The remaining were reported to the concessions office for follow up, which eventually resulted in delivery of the reports. Note that during 2005, four of the IBP holders failed to pay their renewal fees and thus were apparently operating in the park without a current permit; this situation was brought to the attention of the concessions office and ranger staff for resolution.

Reporting of private use reached an all time low in 2005. Of the 25 trips made by private parties during 2005, 2 users returned their cards at the end of the season. Fourteen trips were documented using the wilderness permit database, and nine through staff observation logs. No private stock use was reported through either of these vehicles for the Hockett Plateau, suggesting that in the absence of a ranger in the area, visitors are electing not to obtain a permit through the USFS or self-registration process. Our ability to identify private vs. commercial users continued to be enhanced by having permit issuers note the type of user on the permit at the trailhead.

A new monthly reporting form was provided to commercial users in 2005, which included spaces for reporting day use (spot and drop trips not involving overnight stays in the parks). As these types of trips were previously unreported, these data will assist the wilderness and concessions offices in better understanding visitor use patterns.

Reported use. Reported recreational and administrative stock use during the summer of 2005 totaled **7,155 stock nights**, or 8,766 animal unit nights. This represents a decrease of 5.8% compared to 2004, which had a total of 7,596 stock nights reported. Relative to 2004, reported commercial use increased by 24.8%, while reported private use decreased by 33.8%. Administrative use decreased by 27.7%.

The following statistics describe 2005 stock use by stock type, user type, month, and forage area; and compares that use with past years for which data are available. The letter next to the year indicates the type of snow pack winter (d=dry, n=normal, w=wet) that preceded the field season. According to the amount of moisture in the snowpack, we categorize a year as one of the following:

- 1) **Dry** (less than 50% of average precipitation)
- 2) **Normal** (51% to 150% of average precipitation)
- 3) **Wet** (more than 150% of average precipitation)

The snowpack is the best indicator we have of the amount of moisture the meadows received.

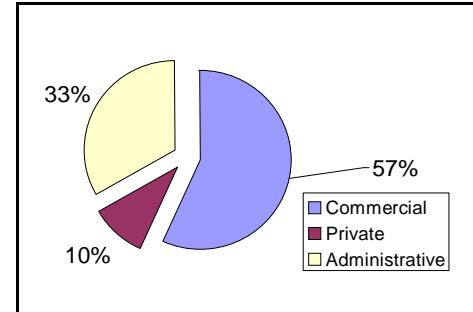
Meadow opening dates for a particular season are adjusted based on snowpack in the high country during the preceding winter.

Based on snow survey data, 2005 was characterized as a normal year in the southern Sierra Nevada, with a May 1 snowpack ranging from 141% to 142% of normal in Sequoia and Kings Canyon drainages. In Kings Canyon National Park grazing was delayed by one to four weeks in fourteen meadows due to locally wet conditions, while in Sequoia 38 meadows opened one to four weeks past the normal season opening date. Upper Crabtree Meadow never dried out sufficiently to be opened to grazing during 2005. Note also that in several areas rangers did not arrive at their stations prior to the anticipated opening dates and were thus unable to evaluate them in a timely manner, making it difficult to provide up to date information to users. These issues—lack of available staff to visit sites early in the season, and problems arising from being on the very ‘wet’ end of a normal year in terms of setting anticipated readiness dates—were discussed at length at the wilderness operations and the meadow management meetings this winter; see minutes from those meetings for additional information.

Types of use. Use is divided into three categories: *Commercial* users are people or companies that pack in stock as a paid service. Companies or individuals of this type are required to hold a commercial operators license with the park. *Private* use is packing done by an individual or with his or her friends or family. Only a standard backcountry permit is required for this type of use. *Administrative* users are those that are employed by the National Park Service and who use pack stock in order to carry out their official duties.

Table 1 and Figure 1. Proportional types of stock use in 2005.

2005	%	Stock Nights	Animal Unit Nights	Animal Unit Months
Commercial	57	4,102	5,093	170
Private	10	693	723	24
Administrative	33	2,360	2,950	98
TOTAL	100	7,155	8,766	292



Supplemental feed. Reported use of supplemental feed (hay, pellets or grain packed in lieu of grazing) increased from 393 stock nights in 2004 to 450 stock nights in 2005, but remained below the high of 493 nights reported in 2003.

Table 2. Reported use (stock nights) of supplemental feed by user group 1998- 2005.

	2005	2004	2003	2002	2001	2000	1999	1998
Commercial	388	368	425	135	168	250	51	256
Private	7	3	37	16	2	4	26	39
Administrative	55	22	31	66	97	27	0	44
TOTAL	450	393	493	217	267	281	77	339

Historical Use (1984 to present). Reported use of stock at Sequoia & Kings Canyon National Parks from 1984 to the present is listed below. Information from years 1955-1983 is available upon request; data for years prior to 1955 likely exists but has yet to be located and summarized. As new information arises it will be incorporated into subsequent reports. Refer to **Table 3** and **Figure 2**. It is important to note that these reflect *reported* use; due to inconsistencies in reporting, these may be quite different from actual use, especially during earlier years.

Administrative grazing at the Ash Mountain pastures is not included in these figures. Up to 90 horses and mules may be grazing at Ash Mountain at any one time. Over the years, grazing at these pastures has ranged from approximately 300 to 700 AUM's or 8000 to 21000 animal unit nights per year. In most years, almost all of the park stock spend the winter (November to May) at the Pixley Wildlife Refuge in the San Joaquin Valley, returning to the Ash Mountain Pasture in early spring.

Table 3. Historical Reported Stock Use at Sequoia and Kings Canyon National Parks. The letter next to the year indicates the type of snowpack year it was: w=wet, n=normal, d=dry. **Stock Nights** refer to an overnight stay by an animal regardless of type. **Animal Unit Months (AUM's)** are calculated by dividing the number of days in a month (30) into the number of animal unit nights; to calculate animal unit nights, multiply this figure by 30 (see text for definition). See earlier reports for data from years prior to 1984.

YEAR	Commercial			Private			Administrative			Total	
	Stock Nights	%	AUMs	Stock Nights	%	AUMs	Stock Nights	%	AUMs	Stock Nights	AUMs
2005n	4102	57	170	693	10	24	2360	33	98	7155	292
2004d	3287	43	124	1046	14	38	3263	43	136	7596	297
2003n/d	3674	45	138	1465	18	54	3079	38	128	8218	320
2002n/d	3912	43	150	1606	18	59	3529	39	148	9076	357
2001n	3844	45	155	1061	12	42	3594	42	150	8499	347
2000n	2648	38	98	1062	15	41	3261	47	136	6971	275
1999n	3467	45	134	974	12	40	3339	43	139	7780	313
1998w	1806	36	66	1039	21	41	2131	43	89	4976	196
1997n	3703	40	146	2969	33	113	2429	27	101	9101	360
1996n	3608	54	148	953	14	37	2147	32	89	6708	274
1995w	2746	52	115	1449	27	60	1128	21	23	5323	222
1994d	5328	56	213	1743	18	70	2431	26	101	9502	384
1993w	4200	54	140	1256	16	42	2362	30	79	7818	261
1992d	6112	55	204	1988	18	66	3007	27	100	11107	370
1991n	6619	59	221	1547	14	52	3036	27	101	11202	374
1990d	7947	62	265	1864	14	62	3084	24	103	12895	430
1989d	6810	55	227	1530	12	51	3990	31	133	12330	411

YEAR	Commercial			Private			Administrative			Total	
	Stock Nights	%	AUMs	Stock Nights	%	AUMs	Stock Nights	%	AUMs	Stock Nights	AUMs
1988n	7350	60	245	1770	14	59	3210	26	107	12330	411
1987d	6000	51	200	2430	21	81	3300	28	110	11730	391
1986w	4500	48	150	1860	20	62	2940	32	98	9300	310
1985n	4530	56	151	1980	24	66	1620	20	54	8130	271
1984	4530	45	151	2700	27	90	2910	28	97	10140	338

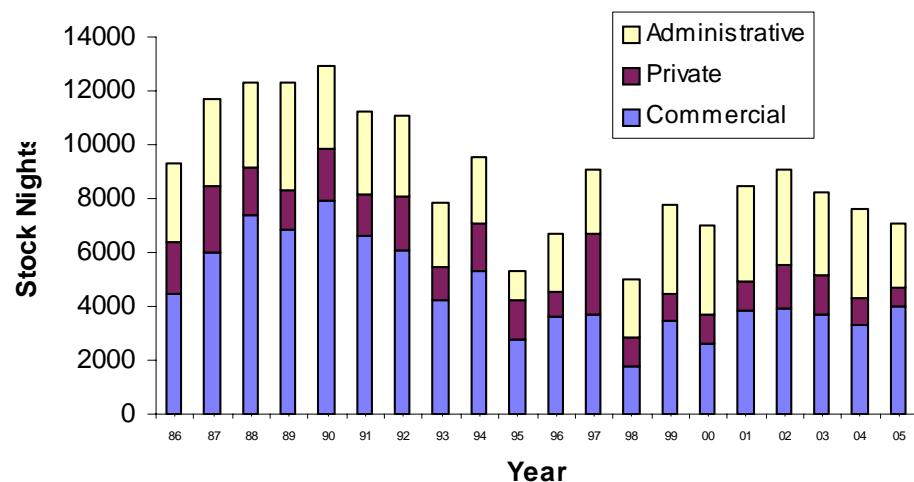


Figure 2: Reported Stock Use in Wilderness Meadows of Sequoia and Kings Canyon National Parks, 1986-2005

Table 4. Administrative Use (Stock nights). This includes all reported use by National Park Service personnel in the wilderness meadows. It does not include Ash Mountain grazing.

	2005n	2004d	2003n/d	2002n/d	2001n	2000n	1999n	1998w	1997n	1996n
Cedar Grove Rangers	0	0	7	0	0	2	0	15	51	0
Grant Grove Rangers	0	0	0	0	0	2	0	51	0	0
Hockett Ranger	0	0	215	300	0	253	86	100	159	160
Hockett Trail Crew	523	857	562	908	816	622	637	325	41	330
Kern Trail Crew	887	918	906	846	1172	861	1093	552	888	494
Kern Ranger	242	255	569	559	489	492	465	425	429	274
Kern Subdistrict Ranger	11	15	0	0	40	10	12	0	0	0
Kings Trail Crew	261	712	442	599	756	634	854	378	558	440
Mineral King Rangers	0	12	0	0	0	0	0	0	0	0
Roaring River Ranger	277	266	122	160	177	218	147	154	133	200
Squad Trip	120	152	90	0	72	95	na	102	90	108
Miscellaneous	50	76	76	95	74	72	45	74	80	130
TOTAL	2364	3263	2928	3467	3596	3261	3339	2176	2429	2136

Figure 3. Administrative stock use by user.

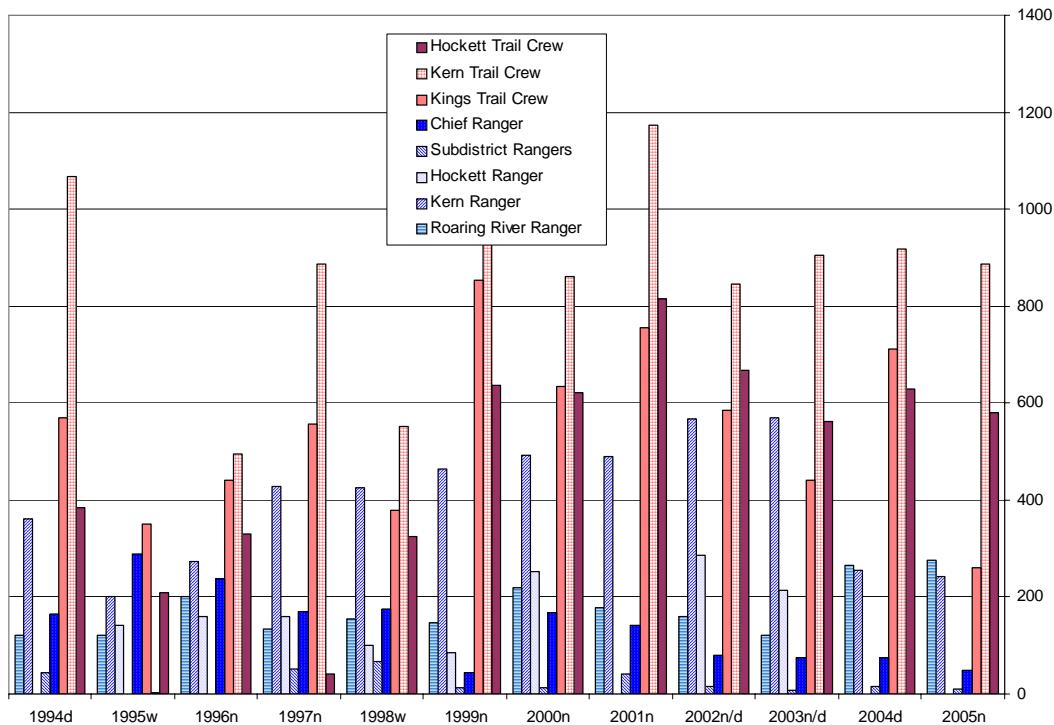


Table 5. Commercial Use (Stock Nights). These numbers include those nights where supplemental feed was provided. Totals for previous years may also include use reported by stations no longer conducting business in Sequoia and Kings Canyon National Parks.

PACKER	2005n	2004d	2003n/d	2002d/n	2001n	2000n	1999n	1998w	1997n	1996n	1995w
Balch Park	119	146	219	462	193	222	156	154	431	259	71
Bishop Pack Outfitters	0	80	65	240	134	35	329	48	139	158	246
Cedar Grove PS	880	955	965	797	1127	528	887	427	669	651	573
Clyde Pack Outfits	0	8	10	14	0	8	17	0	14	16	48
Cottonwood PS	660	298	312	133	247	233	104	84	285	282	46
D & F Pack Station	0	0	57	0	0	60	0	0	0	0	110
Glacier Pack Train	88	0	0	0	0	0	0	7	42	0	0
Golden Trout PS	185	5	121	71	68	79	641	62	391	147	18
High Sierra PS	281	215	49	77	235	202	109	74	154	174	32
Horse Corral PS	364	374	224	296	408	161	176	30	212	231	114
Lost Valley Camp PS	10	0	0	40	65	54	62	89	41	89	23
Mineral King PS	0	0	0	344	151	166	8	80	111	524	643
Muir Trail Ranch	0	0	5	0	3	4	23	26	7	8	14
Pine Creek PS	0	53	27	15	0	18	0	0	4	68	20
Rainbow Pack Outfitters	190	100	147	62	103	62	na	28	77	174	116
Red's Meadow PS	56	0	0	75	82	174	0	0	52	0	0
Rock Creek PS - Whitney Pack Train	990	340	543	424	636	176	607	416	683	365	266
Sequoia Kings Pack Train	159	170	221	145	253	4	29	41	91	389	406
Three-Corner-Round	120	535	600	528	0	420	110	0	90	0	0
Wolverton Pack Station	0	0	0	99	5	0	0	0	0	0	0
TOTAL	4102	3287	3462	3988	3292	2648	3467	1806	3624	3608	2746

Table 6. Types of Stock. Horses and mules remained the primary type of stock used in 2005, with burros and llamas making up a small percentage of total use.

Year	Horses/Mules		Burros		Llamas	
	Stock Nights	%	Stock Nights	%	Stock Nights	%
2005n	6,945	97.1	140	2.0	42	0.6
2004d	6,858	90.3	615	8.1	123	1.6
2003n/d	7,356	89.5	738	9.0	124	1.5
2002n/d	8,190	90.2	766	8.4	120	1.3
2001n	8,222	96.7	162	1.9	115	1.4
2000n	6,376	91.4	500	7.2	95	1.4
1999n	7,370	94.7	189	2.4	221	2.8
1998w	4,572	91.8	143	2.9	261	5.3
1997n	8,469	93.1	141	1.5	491	5.4
1996n	6,641	99.7	0	0	67	0.3
1995w	5,279	99.2	36	0.6	10	.002

Table 7. Monthly Use and Percentage of Entire Season, May-October 1995-2005

	May		June		July		August		Sept.		Oct.	
	Nights	%	Nights	%	Nights	%	Nights	%	Nights	%	Nights	%
2005n	0	0.0	252	3.51	1604	22.36	3528	49.17	1717	23.93	74	1.03
2004d	0	0	594	7.8	2559	33.69	3057	40.24	1330	17.51	40	.53
2003n/d	0	0	424	5.4	2603	31.7	3348	40.7	1634	19.8	209	2.5
2002n/d	0	0	880	9.7	3058	33.7	3118	34.4	1879	20.7	141	1.6
2001n	6	0.1	536	6.6	2190	26.8	3730	45.7	1418	17.4	289	3.5
2000n	0	0	1134	16.3	2005	28.8	2492	35.7	1240	17.8	100	1.4
1999n	0	0	663	8.5	2133	27.4	3243	41.7	1537	19.8	204	2.6
1998w	0	0	67	1.3	508	10.2	2762	55.5	1439	28.9	64	1.3
1997n	8	0.08	574	6.3	2012	22.1	3739	41.1	1750	19.2	257	2.8
1996n	0	0	351	5.2	1749	26.1	2929	44.0	1431	21.3	248	3.7
1995w	0	0	0	0	312	4.7	2565	38.5	2135	32.1	311	4.7

Number of Areas Receiving Use. The number of areas used may be used as an indication of the dispersion of grazing. Variation in the number of areas used, however, may also reflect differences in reporting. Use was reported for a total of 99 forage areas in 2005, compared to 110 in 2004 (a list showing the number of commercial, private, and administrative stock grazing nights for each forage area is presented in Appendix 2). **Commercial** users reported grazing in a total of 75 areas, **private** parties in 25 areas, and **administrative** users in 38 areas.

Table 8. Number of forage areas utilized by user group.

	<u>Commercial</u>	<u>Private</u>	<u>Administrative</u>	<u>Overall</u>
2005n	75	25	38	99
2004d	73	50	50	110
2003n/d	65	61	47	113
2002n/d	69	58	46	109
2001n	78	49	46	115
2000n	72	53	52	113
1999n	63	31	46	92
1998w	52	43	35	93
1997n	73	92	44	135
1996n	91	27	33	107
1995w	60	62	17	96
1994d	105	76	37	139

Areas of High Use. Based on reported stock nights, the following forage areas received heavy use in 2005. In previous years, heavy use was defined as use exceeding 75% of the estimated carrying capacity of a meadow. Until the system of estimating carrying capacity of these meadows is further developed and refined, heavy use will be defined based solely on the amount of use an area receives. Note that forage areas differ in their ability to withstand use and thus may be heavily used but not overgrazed. These meadows should, however, be watched closely for signs of deterioration.

The twenty five forage areas that received the heaviest use overall (by all user groups combined) are shown in Table 9. The **ten** areas most heavily used (total number of stock nights) in 2005 by each user group (commercial, private, and administrative) are presented in the three tables following.

Table 9. Stock nights in the 25 most heavily used areas in 2005 for commercial, private and administrative use combined, with previous years use numbers included for reference.

Meadow	2005	2004	2003	2002	2001	2000	1999	1998	1997	1996
83-5 Lower Crabtree Meadow	393	46	33	176	112	156	71	145	147	139
84-2 Lower Rock Ck Xing Mdw	345	133	267	203	11	28	105	133	110	28
69-5.1 Scaffold Mdw Tourist Past	309	272	86	118	324	348	401	191	313	526
58-2 Woods Creek Crossing	284	205	233	153	202	0	44	108	68	8
86-7 Lewis Camp Large Pasture	218	371	530	517	674	584	805	441	633	340
33-3 Colby Meadow	173	153	6	44	37	51	49	13	65	40
66-3 Junction Meadow	167	163	219	132	190	178	64	96	228	20
86-2 Upper Funston Meadow	164	177	51	163	114	72	322	67	70	173
89-9 Middle Rattlesnake Meadow	162	136	128	146	152	60	5	143	4	176
83-8 Sandy Meadow	160	134	100	195	131	148	108	143	180	195
86-5 Lower Funston Meadow	150	59	78	165	91	30	217	38	358	149
51-1 Simpson Meadow	148	219	106	381	183	265	137	50	81	112
90-5.1 Hockett Meadow	132	354	323	365	342	81	380	267	36	281
86-1 Kern Bridge Camp	132	264	300	320	257	45	168	68	88	112
79-1 Cold Springs Camp Area	120	92	110	91	151	72	0	88	0	0
90-10 South Fork Meadow	119	102	289	323	138	140	60	30	122	288
85-10 Nathan's Meadow	117	66	65	51	199	147	55	84	39	57
33-2 McClure Meadow	113	41	74	38	78	94	94	19	84	22
81-2.2 Wallace Creek Meadows	110	0	0	20	14	0	114	0	24	42
69-5.2 Grasshopper Meadow	108	91	6	20	56	42	0	0	16	0
71-3.2 Middle Ranger Meadow	100	85	289	0	0	3	3	24	1	33
53-7 Shorty's Meadow	98	65	52.5	70	97	44	148	6	59	47
69-2 West Side Roaring River	95	16	97	75	22	27	17	85	153	34
80-3 Tyndall Creek Meadows	91	150	240	195	371	149	286	89	215	118
77-5 Redwood Meadow	89	130	81	315	64	100	116	40	17	0

Table 10. Number of commercial stock nights in the ten areas receiving the heaviest commercial use in 2005, with previous years use numbers provided for reference.

Meadow	2005	2004	2003	2002	2001	2000	1999	1998	1997	1996
83-5 Lower Crabtree Meadow	366	31	33	124	10	61	11	72	86	103
84-2 Lower Rock Ck Xing Mdw	312	95	152	100	11	7	0	37	36	28
58-2 Woods Creek Crossing	247	79	159	90	13	0	0	44	0	8
66-3 Junction Meadow	146	147	122	119	161	142	58	40	155	20
86-5 Lower Funston Meadow	131	39	40	85	65	28	171	18	238	108
86-2 Upper Funston Meadow	127	32	0	39	50	14	119	0	19	54
90-10 South Fork Meadow	119	102	159	246	118	122	60	0	20	193
85-10 Nathan's Meadow	117	47	46	24	103	52	55	18	19	21
33-2 McClure Meadow	113	26	58	27	43	72	73	19	53	22
81-2.2 Wallace Creek Meadows	110	0	0	20	14	0	114	0	0	42

Table 11. Number of private stock nights in the ten areas receiving the heaviest private use in 2005, with previous years use numbers included for reference.

Meadow	2005	2004	2003	2002	2001	2000	1999	1998	1997	1996
33-3 Colby Meadow	50	0	0	0	7	3	0	0	0	0
71-3.2 Middle Ranger Meadow	43	81	281	0	0	0	0	18	1	0
69-5.2 Grasshopper Meadow	32	0	0	0	0	0	0	0	14	0
83-5 Lower Crabtree Meadow	27	15	0	12	26	56	38	73	21	0
81-1 Wright Creek Drainage	27	0	9	4	0	0	10	6	0	0
70-6 Grand Palace Hotel	20	12	14	15	0	41	9	4	0	0
79-2 Milestone Basin	18	0	7	34	0	0	0	6	5	0
80-3 Tyndall Creek Meadows	18	16	23	9	37	3	22	9	10	0
69-5.1 Scaffold Mdw Tourist Past	18	66	63	62	102	133	139	76	46	233
71-1 Austin Camp Meadows	17	114	5	51	50	0	0	12	16	0

Table 12. Number of administrative stock nights in the ten areas receiving the heaviest administrative use in 2005, with previous years use numbers included for reference.

Meadow	2005	2004	2003	2002	2001	2000	1999	1998	1997	1996
86-7 Lewis Camp Large Pasture	210	363	522	499	630	551	492	383	491	296
69-5.1 Scaffold Mdw Tourist Past	185	186	20	26	205	189	163	115	165	170
89-9 Middle Rattlesnake Canyon	162	136	128	134	152	48	5	133	4	142
90-5.1 Hockett Meadow	132	273	226	336	342	79	374	264	10	161
86-1 Kern Bridge Camp	124	262	286	300	257	37	168	5	88	94
79-1 Cold Springs Camp Area	120	92	96	91	151	72	0	88	0	0
83-8 Sandy Meadow	112	128	100	195	130	144	108	143	176	168
69-2 West Side Roaring River	95	16	97	75	22	13	14	51	0	0
77-5 Redwood Meadow	89	94	55	303	64	100	104	40	16	0
87-1 Upper Big Arroyo	77	0	0	0	0	72	0	0	0	0

Discussion

Reported recreational and administrative stock use during the summer of 2005 totaled **7,155 stock nights**, or 8,766 animal unit nights. This represents a decrease of 5.5% compared to 2004, which had a total of 7,596

stock nights reported. Relative to 2004, reported commercial use increased by 24.8%, while reported private use decreased by 33.8%. Administrative use decreased by 27.7% over the previous year.

The increase in commercial use is notable as most of the change is attributable to dramatic increases by two pack stations, Cottonwood and Rock Creek. Cottonwood reported 660 nights of use in 2005, an increase of 122% over the 298 nights reported in 2004. Rock Creek reported 990 nights of use in 2005, an increase of 192% over the 340 nights reported in 2004. Rock Creek Pack Station also shifted its use southward into the Kern drainage in 2005. This shift likely reflects a response to use limits imposed by the USFS in the John Muir and Ansel Adams Wilderness areas (as part of the Golden Trout Wilderness, Cottonwood Pass is not subject to the same restrictions and thus provides an alternate entry point into the parks). This shift southward, combined with increased use by Cottonwood Pack Station and the effective closure of Upper Crabtree Meadow due to wet conditions, resulted in unprecedented use at Lower Crabtree Meadow (from 46 nights in 2004 to 393 nights in 2005) and in all of the primary Rock Creek meadows as well (Lower Rock Creek Crossing, Nathan's, and Penned-up Meadow).

Relative to 2004, Glacier, Golden Trout Wilderness, Rainbow, and Reds Meadow each reported significant increases in use as well. Three Corner Round, Pine Creek, and Bishop Pack Outfitters each reported significant decreases, with the latter two reporting no overnight use in the two parks in 2005.

The decline in private use likely represents a lack of reporting rather than an actual decrease in use, although wet conditions (delayed opening dates for grazing, passes blocked by snow) may have contributed to any actual decline. The lack of a ranger at the Hockett Ranger Station appears to have resulted in a dramatic decrease in reporting of use and in permit issuance in that patrol area; according to the permit database, no private stock users visited the Hockett Plateau in 2005. Based on observations of private users by park staff, we know that this was not the case. It also appears that private users are either not receiving the self-reporting cards from USFS permit stations, or are electing not to mail them in after their trips are completed; in either event, the end result is a significant drop in self-reporting of grazing nights by private stock users, and thus a decrease in the number of reported nights.

Reported use of supplemental feed in lieu of grazing decreased among commercial users and private users and increased among administrative users relative to 2004. Overall, reported use of supplemental feed increased by 14.5%. Horses and mules remained the primary type of stock used, accounting for 96.5% of total use. Llama use decreased relative to previous years, accounting for only 0.6% of total use. Reported burro use also decreased, accounting for only 2% of total stock use; this reflects the impact of a heavy snowpack on the primary user of burros in these parks, Three Corner Round.

Administrative use continued to be focused on meadows adjacent to stock supported ranger stations (Kern and Roaring River) and those areas serving as foci for trail crews during the season (Middle Rattlesnake Canyon, Kern Bridge Camp, Cold Springs Camp, Sandy Meadow, and West Side Roaring River). As in previous years, Lewis Camp Large Pasture received the greatest amount of administrative stock use, although total use there decreased significantly from 363 nights in 2004 to 210 nights in 2005. Combined with wet conditions, this resulted in a dramatic improvement in site conditions there.

Significant increases in use relative to 2004 were seen in a number of areas, including the following:

	<i>Sequoia</i>
<i>Kings Canyon</i>	
McClure Meadow (reflecting the temporary closure of Evolution Meadow)	Lower Crabtree Meadow
Upper Basin Meadows	Lower Whitney Creek
S. Fork Kings River	Lower Rock Creek Crossing
Woods Creek Crossing	Nathan's Meadow
Scaffold Meadow Tourist Pasture	Penned-up Meadow
	Lower Funston Meadow

Meadows of concern which showed a significant decrease in use relative to 2004 included the following:

Kings Canyon

Evolution Meadow (closed to grazing in
2005)
Big Pete Meadow
Simpson Meadow
Upper Bubbs Creek
East Lake Meadow
Austin Camp Meadows

Sequoia

Upper Crabtree (closed due to persistent
wet conditions)
Kern Bridge Camp
Lewis Camp Large Pasture
Lower Big Arroyo

Data management. As discussed above, lack of response and/or a mechanism that elicits a response from private stock users remains a concern. As in the previous two years, trailhead personnel were again asked to indicate on each permit whether it was being issued to a commercial or private stock group; this improved our ability to identify private users and thus limit the number of redundant information requests sent out to clients of commercial packers. Commercial packers were also required to include the name of the client who received the permit so that we can better correlate field observations with reported use. Both of these practices will be continued in 2006, as well as full implementation of the monthly reporting requirement of both day and overnight use. This will allow us to better track stock use patterns overall, and streamline the process of winnowing through the permit database.

Late IBP reports remained a significant factor in the delayed preparation date of this summary, despite requesting that reports be submitted on a monthly basis in 2005. The concessions staff was instrumental in obtaining reports from chronically late permit holders. Wilderness and trailhead rangers are asked to continue to maintain their stock use observation forms, which are critical for verifying use reports and gaining a more realistic estimate of actual use for specific forage areas.

Note that this report supercedes all previous stock use reports from Sequoia and Kings Canyon National Parks, as additional data are acquired and errors are corrected.

As this report relies on diverse sources of data, and as the author is certainly not immune to the making of errors, please submit corrections or comments regarding any questionable portions of this report. If you are aware of use that has not been captured, or if it appears that use has been either under or over reported, please do not hesitate to bring it to my attention. Even if it is not possible to determine the correct number, it is helpful to annotate areas of uncertainty wherever they occur. I will endeavor to update the stock use database as corrections are submitted; note that this practice results in variations in the totals from one year to the next as additional data become available.

Acknowledgements. I wish to thank all of the stock users who took the time to send in their reporting forms this year, and also the wilderness and trailhead rangers who kept track of stock use nights in their areas. These observations are essential to monitoring use patterns. Data entry was cheerfully carried out by Kim Bollens, DNR office clerk. Funding for the meadow monitoring position was provided in part by the concessions office, and this support is greatly appreciated. I also wish to recognize the additional effort made by trailhead rangers to annotate permits for us, and by the wilderness office staff who set aside packstock related permits for us.

Appendix 1. Samples of stock use reporting forms used during 2005; the small card is distributed to private parties with their wilderness permit, and is stamped and addressed for ease of return.

STOCK USE REPORTING CARD

Please circle one: Horses/mules

Please circle one: Commercial Packer

Sequoia and Kings Canyon National Parks

Burros Llamas

Private Party

NPS Stock

Date	Forage Area Used That Night (name of meadow, camp, etc.)	Forage Area #	# of stock	# of nights	# of people

Form completed by (please print): _____ Date: _____

Address: _____ Phone: _____

One location per line. Please be specific in naming forage areas. Please return by Oct. 31.

Front:

UNITED STATES
 DEPARTMENT OF THE INTERIOR AN EQUAL OPPORTUNITY EMPLOYER
 NATIONAL PARK SERVICE
 SEQUOIA AND KINGS CANYON NATIONAL PARKS
 47050 GENERALS HIGHWAY
 THREE RIVERS, CALIFORNIA 93271

Official Business
 Penalty For Private Use \$300

Wilderness Office
 Sequoia and Kings Cyn National Parks
 47050 Generals Highway
 Three Rivers, CA 93271

2005 Commercial Pack and Saddle Stock Use Report Sequoia and Kings Canyon National Parks

Note: this form replaces the previous Overnight Stock Use Report for Commercial Pack Stations and Residential Business Permit Holders, and includes all packstock use whether or not grazing occurs. Please return on a monthly basis to: Concessions Office, Sequoia and Kings Canyon National Parks, Three Rivers CA 93271 by the tenth of the month; e.g. report all July use by August 10.

D In – Dunnage In
S In – Spot In
T – Travel Trip

D Out – Dunnage Out
S Out – Spot Out

Dunnage trips : Dunnage is delivered and/or picked up; clients are on foot. Includes resupply trips
Spot trips: Clients and their dunnage are delivered and/or picked up; clients are on horseback
Clients and packers travel together for the duration of the trip

Appendix 2: Reported Stock Use by Meadow Forage Area (including pellet nights)

Commercial-Private-Administrative|Total Stock Nights

		2005	2004	2003	2002	2001	2000	1999
28-1	Piute Creek	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	30-0-0 30	0-0-0 0	0-3-0 3
28-2	Aspen Meadow	5-0-0 5	10-0-0 10	0-0-0 0	0-16-0 16	6-0-0 6	0-0-0 0	28-0-0 28
28-3	Cony Camp	2-0-28 30	16-2-57 75	4-0-0 4	31-0-0 31	8-0-22 30	36-4-96 136	3-0-0 3
28-4	Franklin-Montgomery Mdw	21-0-0 21	12-0-12 24	0-0-0 0	12-0-0 12	30-0-12 42	9-0-0 9	35-0-0 35
28-6	Hell-For-Sure Jct Mdws	3-0-0 3	16-0-0 16	0-0-0 0	10-15-0 25	46-0-0 46	3-0-0 3	40-0-0 40
28-7	Upper Goddard Cyn	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
33-1	Evolution Meadow	0-0-0 0	0-0-0 0	117-0-0 117	177-17-32 226	150-42-6 198	161-6-0 167	167-9-0 176
33-2	McClure Meadow	113-0-0 113	26-4-11 41	58-0-16 74	27-0-11 38	43-3-32 78	72-10-12 94	73-6-15 94
33-3	Colby Meadow	103-50-20 173	153-0-0 153	6-0-0 6	44-0-0 44	30-7-0 37	48-3-0 51	39-0-10 49
33-4	Darwin Meadow	0-0-0 0	12-0-0 12	0-0-0 0	0-0-0 0	30-2-0 32	14-0-14 28	37-10-72 119
33-5	Lake 11,106	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
33-6	Darwin Bench	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
33-8	McGee Canyon	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-4-0 4	0-0-0 0	8-0-0 8
33-9	Emerald Lakes	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
34-1	Evolution Lake	0-0-0 0	5-0-0 5	14-0-0 14	0-3-0 3	0-0-0 0	0-0-0 0	12-0-0 12
34-2	Sapphire Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
34-3	Huxley Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
38-1	Upper Blue Canyon	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
38-2	Blue Canyon Meadow	0-0-0 0	0-0-0 0	0-0-8 8	6-0-15 21	0-0-0 0	0-0-0 0	5-0-0 5
38-3	Lower Blue Canyon	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
39-1	Upper LeConte Canyon	9-0-0 9	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-4-0 4	22-0-0 22
39-2	Big Pete Meadow	74-0-0 74	89-0-51 140	96-0-0 96	137-0-0 137	74-0-10 84	13-0-7 20	29-0-0 29
39-3	Little Pete Meadow	6-0-20 26	45-11-0 56	0-0-14 14	15-0-45 60	48-0-0 48	89-2-38 129	38-0-142 180
39-4	Ladder Camp	26-0-0 26	21-0-0 21	16-0-0 16	27-0-0 27	4-0-0 4	20-0-0 20	0-0-0 0
39-5	Grouse Meadow	0-0-0 0	6-0-0 6	19-0-0 19	8-0-20 28	13-0-18 31	9-10-5 24	22-0-87 109
39-6	Palisade Creek Junction	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
39-7	Stillwater Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
39-8	Deer Meadow	44-0-14 58	0-0-60 60	19-0-0 19	5-0-10 15	32-0-0 32	9-8-9 26	33-0-24 57
42-1	Dusy Creek	0-0-0 0	5-0-0 5	17-0-0 17	11-0-0 11	0-0-0 0	5-0-0 5	24-0-12 36

Appendix 2: Reported Stock Use by Meadow Forage Area (including pellet nights)

Commercial-Private-Administrative|Total Stock Nights

	2005	2004	2003	2002	2001	2000	1999
42-2 Lower Dusy Basin	20-0-0 20	10-0-0 10	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
42-3 Upper Dusy Basin	19-3-0 22	14-0-0 14	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
42-4 Rainbow Lakes	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
45-1 Palisade Lakes	66-0-0 66	12-2-0 14	0-0-0 0	0-0-0 0	0-0-0 0	0-4-0 4	22-0-0 22
46-1 Upper Basin Meadows	80-0-0 80	0-0-0 0	21-0-0 21	0-0-0 0	133-0-0 133	48-0-0 48	39-0-0 39
46-2 South Fork Kings River	73-0-0 73	12-0-0 12	40-0-0 40	21-0-0 21	43-0-0 43	0-4-16 20	0-0-12 12
46-3 Bench Lake/JMT Jct.	4-0-0 4	19-4-0 23	31-0-0 31	8-10-6 24	37-0-0 37	36-2-0 38	0-0-14 14
46-4 Bench Lake	0-0-0 0	0-0-0 0	5-0-0 5	0-0-0 0	7-0-0 7	0-4-0 4	49-0-0 49
46-5 Taboose Pass Area	0-0-0 0	5-0-0 5	17-0-0 17	0-0-0 0	6-0-0 6	0-0-0 0	0-0-0 0
46-6 Lake Marjorie	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	9-0-0 9	0-0-0 0
47-1 Cartridge Creek	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
47-2 Lake Basin	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
47-3 Marion Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
47-4 Cataract Creek	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
47-5 Mdws SW of Bench Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
47-8 Muro Blanco	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
51-1 Simpson Meadow	73-0-75 148	127-0-92 219	46-0-60 106	229-0-152 381	34-0-149 183	66-0-199 265	122-15-0 137
51-2 Tehipite Valley	0-0-0 0	0-0-0 0	0-0-0 0	8-0-0 8	0-0-0 0	0-8-0 8	12-0-0 12
51-3 Gnat Meadow	0-0-0 0	0-0-0 0	10-0-0 10	0-0-0 0	0-0-0 0	8-0-0 8	0-0-0 0
51-4 Hay Meadow	0-0-0 0	8-0-0 8	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
52-1 Volcanic Lakes Basin	0-0-0 0	5-0-0 5	16-0-0 16	0-0-0 0	0-0-0 0	60-0-0 60	0-0-0 0
52-13 Jerkey Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
52-14 Upper end of Hotel Creek	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
52-15 Hotel Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
52-2 Kennedy Canyon Meadows	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
52-3 Upper Kennedy Canyon Mdw	0-0-24 24	0-0-0 0	0-0-0 0	0-0-0 0	0-18-0 18	0-0-0 0	0-0-0 0
52-4 Kennedy Pass Meadows	0-0-0 0	0-0-93 93	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
52-5 West Kennedy Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0

Appendix 2: Reported Stock Use by Meadow Forage Area (including pellet nights)

Commercial-Private-Administrative|Total Stock Nights

	2005	2004	2003	2002	2001	2000	1999
52-6 Frypan Meadow	0-0-0 0	0-0-0 0	14-0-0 14	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
53-1 Horseshoe Meadows	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-219 219
53-2 Horseshoe Lakes Turnoff	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
53-3 State Lakes Area	0-0-0 0	0-0-0 0	34-0-0 34	0-0-0 0	0-0-0 0	8-0-0 8	0-0-0 0
53-4.1 Dougherty Meadows	0-0-6 6	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
53-4.2 Glacier Valley Meadows	8-0-20 28	13-0-0 13	116-40-0 156	0-24-44 68	74-32-0 106	30-0-0 30	0-0-0 0
53-5 Fallen Moon Meadow	36-0-0 36	62-0-0 62	65-12-0 77	68-35-0 103	87-27-0 114	0-0-0 0	89-0-18 107
53-6 Volcanic Trail Junction	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
53-7 Shorty's Meadow	92-0-6 98	65-0-0 65	53-0-0 53	70-0-0 70	97-0-0 97	40-4-0 44	138-10-0 148
53-8 Granite Pass Meadows	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
54-1 Granite Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
54-2 Granite Basin Meadows	70-0-0 70	43-0-0 43	50-0-13 63	38-0-8 46	21-0-0 21	6-12-2 20	23-0-0 23
54-3 Grouse Lake	30-0-0 30	0-0-0 0	0-0-0 0	0-36-0 44	11-0-0 11	0-0-0 0	27-0-0 27
54-4 Halfmoon Meadow	0-0-0 0	0-0-0 0	48-0-0 48	0-0-0 0	0-18-0 18	0-0-0 0	0-0-0 0
54-5.1 Lower Tent Meadow	0-0-0 0	0-0-0 0	0-6-0 6	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
54-5.2 Upper Tent Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
55-1 Woods Creek Jct Mdw	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	175-0-15 190	25-0-20 45	80-0-0 80
55-2 U. Paradise Valley Mdw	0-0-0 0	0-0-0 0	0-5-0 5	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
55-3 L. Paradise Valley Mdw	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-4-0 4	0-0-0 0
56-1 Mdws S. of Pinchot Pass	0-0-0 0	135-0-0 135	0-0-0 0	80-0-0 80	13-0-0 13	57-0-0 57	0-0-0 0
56-2 Twin Lakes Area	8-0-0 8	12-0-6 18	17-0-0 17	5-0-0 5	0-1-98 99	7-4-0 11	0-0-0 0
56-3 White Fork Camp	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	13-0-0 13	0-0-0 0	0-0-0 0
57-1 Woods Lake Meadows	20-0-0 20	75-0-0 75	109-0-0 109	74-0-0 74	18-0-0 18	0-0-0 0	20-0-0 20
58-1 Castle Domes Meadow	64-0-14 78	40-0-76 116	21-0-0 21	56-0-6 62	122-0-5 127	0-4-0 4	78-0-0 78
58-2 Woods Creek Crossing	247-0-37 284	79-0-126 205	159-5-69 233	90-0-63 153	13-63-126 202	0-0-0 0	0-0-44 44
58-3 Baxter Creek Drift Fence	53-7-0 60	51-4-0 55	28-5-0 33	121-0-0 121	48-0-0 48	43-0-0 43	49-0-14 63
59-1 Baxter Creek	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0

Appendix 2: Reported Stock Use by Meadow Forage Area (including pellet nights)

Commercial-Private-Administrative|Total Stock Nights

		2005	2004	2003	2002	2001	2000	1999
59-2	Baxter Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
60-1	Gardiner Basin	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
61-1	Cotter Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
61-2	Fjord Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
61-3	Lower 60 Lakes Basin Mdws	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
62-1	Rae Lakes Basin Meadows	0-0-0 0	6-0-0 6	0-4-0 4	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
62-2	Dragon Lake Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
63-1	Charlotte Creek Meadows	0-14-0 14	53-12-0 65	91-24-3 118	48-10-0 58	29-0-0 29	66-0-0 66	60-0-7 67
63-2	Charlotte Lake Lower Mdw	37-0-0 37	0-0-0 0	0-0-0 0	0-0-0 0	34-0-0 34	0-0-7 7	0-0-0 0
63-3	Charlotte Lake Upper Mdw	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
64-1	Kearsarge Basin Meadows	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
64-2	Bullfrog Lake Meadows	0-0-0 0	0-10-0 10	0-0-0 0	0-0-0 0	0-5-0 5	0-0-0 0	0-0-0 0
65-1	Vidette Meadow	46-0-0 46	0-8-0 8	0-0-0 0	0-0-0 0	0-1-0 1	0-0-0 0	0-0-0 0
65-2	East Vidette Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	13-0-0 13	12-0-0 12	0-0-0 0
65-3	Upper Vidette Meadows	64-0-0 64	12-0-0 12	45-4-0 49	0-0-0 0	33-0-0 33	58-0-0 58	210-0-0 210
65-4	Upper Bubbs Creek	12-12-0 24	239-4-0 243	218-5-23 246	96-0-0 96	6-5-0 11	50-0-0 50	12-0-0 12
65-5	Center Basin	0-0-0 0	0-1-0 1	0-0-0 0	0-0-0 0	12-0-0 12	0-0-0 0	0-0-0 0
66-1.1	Sphinx Creek Junction	0-0-0 0	0-0-0 0	0-5-0 5	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
66-1.2	Angleworm Meadow	0-3-0 3	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
66-2	Charlotte Creek Confluence	0-0-0 0	0-0-0 0	0-7-0 7	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
66-3	Junction Meadow	146-3-18 167	147-4-12 163	122-3-94 219	119-0-13 132	161-12-17 190	142-21-15 178	58-0-6 64
67-1	East Lake Meadow	4-0-0 4	210-12-0 222	131-18-0 149	133-16-0 149	105-5-0 110	106-0-0 106	101-0-0 101
67-2	Ouzel Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
67-3	Reflection Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
68-1	Sphinx Creek Crossing	0-0-0 0	0-4-0 4	0-0-0 0	0-0-0 0	0-0-0 0	0-2-0 2	0-0-0 0
69-2	West Side Roaring River	0-0-95 95	0-0-16 16	0-0-97 97	0-0-75 75	0-0-22 22	0-14-13 27	0-3-14 17
69-3	JR Pasture	6-0-57 63	10-0-52 62	0-0-19 19	0-0-25 25	0-2-27 29	0-0-49 49	0-0-47 47

Appendix 2: Reported Stock Use by Meadow Forage Area (including pellet nights)

Commercial-Private-Administrative|Total Stock Nights

	2005	2004	2003	2002	2001	2000	1999
69-4 Lackey Pasture	0-0-25 25	0-19-36 55	3-2-16 21	0-0-10 10	0-8-12 20	0-0-47 47	23-0-18 41
69-5.1 Scaffold Mdw Tourist Pasture	106-18-185 309	20-66-186 272	3-63-20 86	30-62-26 118	17-102-205 324	26-133-189 348	99-139-163 401
69-5.2 Grasshopper Meadow	76-32-0 108	63-0-28 91	0-0-6 6	0-0-20 20	48-0-8 56	30-0-12 42	0-0-0 0
69-6.1 Moraine Meadow	0-0-0 0	0-0-0 0	0-5-0 5	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
69-6.2 Moraine Stringers	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
69-6.3 Metroyhoy Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
70-1.1 Grasshopper Camp	0-0-0 0	0-0-0 0	0-0-6 6	0-0-0 0	0-0-22 22	0-27-0 27	0-0-0 0
70-1.2 Brewer Stringers	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
70-2 Barton Meadow and Stringer	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
70-3 False Cement Table Meadow	0-0-0 0	0-0-0 0	0-0-14 14	0-0-20 20	0-0-0 0	0-20-6 26	0-0-0 0
70-4 Cement Table Meadow	48-0-0 48	0-22-0 22	0-4-0 4	0-12-0 12	10-55-0 65	18-145-9 172	0-34-0 34
70-5 Big Wet Meadow	8-0-0 8	28-24-0 52	92-15-2 109	163-171-20 354	212-27-36 275	6-0-15 21	62-0-21 83
70-6 Grand Palace Hotel	0-20-0 20	7-12-53 72	0-14-63 77	0-15-43 58	0-0-20 20	0-41-10 51	0-9-35 44
70-7 Colby Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
71-1 Austin Camp Meadows	0-17-0 17	68-114-0 182	3-5-12 20	0-51-25 76	0-50-22 72	0-0-33 33	0-0-0 0
71-2 Grave Meadow	0-0-0 0	0-24-0 24	32-42-0 74	0-0-0 0	20-0-0 20	42-25-0 67	0-21-0 21
71-3.1 Lower Ranger Meadow	0-0-0 0	0-0-0 0	0-9-0 9	0-0-0 0	0-0-4 4	0-40-49 89	28-87-6 121
71-3.2 Middle Ranger Meadow	57-43-0 100	0-81-4 85	0-281-8 289	0-0-0 0	0-0-0 0	0-0-3 3	0-0-3 3
71-4 Upper Ranger Meadow	42-0-0 42	0-0-0 0	0-0-8 8	0-20-6 26	0-0-6 6	0-0-3 3	0-0-0 0
71-5 Upper Deadman Canyon	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
72-1 Pond Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
72-10 Sugarloaf Creek Camp	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-25-18 43	0-21-0 21	0-0-0 0
72-11 Honeymoon Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
72-12 Boggy Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
72-13 Crowley Canyon	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
72-14 Box Canyon	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
72-15 Ellis Meadow Area	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0

Appendix 2: Reported Stock Use by Meadow Forage Area (including pellet nights)

Commercial-Private-Administrative|Total Stock Nights

	2005	2004	2003	2002	2001	2000	1999
72-16 Paradise Meadow Area	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
72-17 West Fork Ferguson Ck	0-0-0 0	0-0-0 0	0-0-0 0	0-29-0 29	0-0-0 0	0-0-0 0	0-0-0 0
72-18 Ferguson Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
72-19 Long Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
72-2 Catch'em Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	20-0-0 20
72-20 Lewistall Meadows	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
72-21 Little Jack Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
72-22 Scenic Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
72-3 Willow Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
72-4 Mitchell Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
72-5 Quartz Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
72-6 Williams Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-8-0 8	0-0-0 0	0-0-0 0	0-0-0 0
72-7 Comanche Meadow	0-6-0 6	11-7-0 18	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-6-0 6
72-8 Sugarloaf Meadow	26-10-0 36	36-15-0 51	75-48-0 123	99-91-5 195	0-128-0 128	72-122-6 200	20-207-3 230
72-9 Little Sugarloaf Meadow	0-0-0 0	0-6-0 6	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
73-1 Sheep Camp Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
73-2 Seville Lake	0-14-0 14	0-0-0 0	0-0-0 0	0-6-0 6	0-0-0 0	0-0-0 0	20-0-0 20
73-3 Lovelace Cabin Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
73-4 Lost Lake	0-0-0 0	0-0-4 4	0-39-0 39	0-12-0 12	0-0-0 0	0-0-0 0	0-0-0 0
73-5 Ranger & Beville Lakes	0-8-10 18	0-20-0 20	22-0-0 22	0-24-0 24	42-82-91 215	0-10-0 10	0-0-0 0
74-1 Twin Lakes	0-0-0 0	0-0-2 2	0-0-0 0	0-6-0 6	0-0-0 0	0-0-0 0	0-0-0 0
74-2 Pattee Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
74-3 Clover Creek	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
74-4 Cahoon Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
74-5 Silliman Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
74-6 Willow Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
75-1 Lone Pine Meadows	40-0-0 40	0-6-0 6	0-5-0 5	54-12-0 66	5-0-0 5	0-0-0 0	0-0-0 0

Appendix 2: Reported Stock Use by Meadow Forage Area (including pellet nights)

Commercial-Private-Administrative|Total Stock Nights

	2005	2004	2003	2002	2001	2000	1999
75-2 Tamarack Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
75-3 Table Meadows	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
76-1 Emerald Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
76-2 Pear Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
77-1 Bearpaw Meadow	2-0-0 2	11-14-0 25	0-0-0 0	0-27-0 27	0-0-0 0	0-0-0 0	0-0-0 0
77-2 Little Bearpaw Meadow	22-0-0 22	0-0-0 0	74-9-0 83	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
77-3 River Valley	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
77-4 Granite Ck, Strawberry Mdw	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
77-5 Redwood Meadow	0-0-89 89	36-0-94 130	15-11-55 81	6-6-303 315	0-0-64 64	0-0-100 100	0-12-104 116
77-6 Cliff Creek	0-0-0 0	0-0-0 0	0-0-0 0	0-3-0 3	0-3-0 3	0-0-0 0	0-0-0 0
77-7 Pinto Lake Meadow	0-0-0 0	0-0-0 0	0-19-18 37	31-0-0 31	16-0-0 16	17-2-12 31	6-0-0 6
78-1 Hamilton Lakes	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-3 3	0-0-0 0
79-1 Cold Springs Camp Area	0-0-120 120	0-0-92 92	0-14-96 110	0-0-91 91	0-0-151 151	0-0-72 72	0-0-0 0
79-2 Milestone Basin	0-18-0 18	0-0-3 3	0-7-0 7	0-34-0 34	0-0-0 0	0-0-0 0	0-0-0 0
79-3 Rockslide Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
79-4 Lower Kern-Kaweah River	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	16-0-0 16	0-0-228 228	0-0-0 0
79-5 Gallats Lake Meadows	0-0-0 0	31-0-145 176	0-0-0 0	0-0-0 0	0-0-0 0	0-0-9 9	0-0-0 0
79-6 Upper Kern-Kaweah River	0-0-0 0	0-0-0 0	0-0-84 84	0-0-0 0	0-0-52 52	0-0-0 0	0-0-0 0
80-1 Bighorn Plateau Lake Mdw	0-0-0 0	0-0-0 0	30-0-0 30	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
80-2 Tyndall Ck/JMT Frog Ponds	0-6-72 78	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
80-3 Tyndall Creek Meadows	61-18-12 91	62-16-72 150	145-23-72 240	121-9-65 195	243-37-91 371	134-3-12 149	144-22-120 286
80-4 Sheep Camp Meadows	11-0-0 11	72-0-0 72	140-5-0 145	14-0-0 14	16-0-0 16	0-0-0 0	0-0-0 0
80-5.1 Lake South America	0-0-0 0	0-0-0 0	11-0-0 11	48-0-0 48	0-0-0 0	0-6-0 6	0-0-0 0
80-5.2 Lake S. Americal Col Mdw	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
80-6 Kern Headwaters	69-0-0 69	0-0-0 0	57-0-0 57	11-0-0 11	12-0-0 12	72-0-0 72	0-0-0 0
81-1 Wright Creek Drainage	39-27-0 66	139-0-6 145	149-9-0 158	99-4-0 103	104-0-0 104	9-0-0 9	24-10-0 34
81-2.1 Wallace Ck/JMT Jct Mdw	12-0-0 12	12-0-0 12	0-0-0 0	0-0-0 0	5-1-0 6	0-0-0 0	0-0-0 0

Appendix 2: Reported Stock Use by Meadow Forage Area (including pellet nights)

Commercial-Private-Administrative|Total Stock Nights

	2005	2004	2003	2002	2001	2000	1999
81-2.2 Wallace Creek Meadows	110-0-0 110	0-0-0 0	0-0-0 0	20-0-0 20	14-0-0 14	0-0-0 0	114-0-0 114
81-2.3 Wallace Ck Waterfall Mdw	0-0-0 0	5-5-0 10	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	5-0-0 5
81-2.4 Marshy Meadows	33-0-0 33	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
81-2.5 Wallace Ck Closed Mdw	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
82-1 Junction Meadow (Kern)	26-0-0 26	0-38-0 38	0-16-0 16	3-4-0 7	0-0-0 0	8-0-0 8	0-7-12 19
82-2 One mi. < Junction Mdw	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-2 2	0-0-3 3	0-0-2 2
82-3 Three mi. < Junction Mdw	12-0-0 12	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
83-1 Guitar Lake	0-0-0 0	0-4-0 4	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
83-2 Timberline Lake Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
83-3 Crabtree R.S. Meadows	0-0-0 0	0-0-0 0	37-0-0 37	0-0-0 0	4-1-2 7	0-0-0 0	0-0-0 0
83-4 Upper Crabtree Meadow	58-0-0 58	158-44-40 242	215-14-38 267	168-26-40 234	307-0-2 309	111-18-0 129	229-15-0 244
83-5 Lower Crabtree Meadow	366-27-0 393	31-15-0 46	33-0-0 33	124-12-40 176	10-26-76 112	61-56-39 156	11-38-22 71
83-6 Crabtree Lakes Meadows	0-0-0 0	35-0-0 35	0-0-0 0	0-0-0 0	0-0-0 0	28-0-0 28	0-0-0 0
83-7 Lower Whitney Creek	65-0-0 65	0-0-0 0	0-0-0 0	0-12-0 12	0-0-0 0	0-0-0 0	0-0-0 0
83-8 Sandy Meadow	48-0-112 160	6-0-128 134	0-0-100 100	0-0-195 195	0-1-130 131	4-0-144 148	0-0-108 108
84-1 Rock Creek R.S. Meadow	0-0-0 0	0-2-0 2	0-9-0 9	0-49-0 49	0-5-0 5	0-0-0 0	0-0-0 0
84-2 Lower Rock Ck Xing Mdw	312-13-20 345	95-38-0 133	152-19-96 267	100-25-78 203	11-0-0 11	7-21-0 28	0-9-96 105
84-3 Lower Rock Creek Meadows	23-0-0 23	0-0-0 0	0-0-0 0	0-0-0 0	36-3-0 39	100-0-0 100	0-0-0 0
84-4 Forgotten Canyon Meadows	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
84-5 Guyot Creek Meadows	0-0-0 0	0-0-0 0	0-0-0 0	0-1-0 1	4-0-0 4	0-0-0 0	0-0-0 0
84-6 Siberian Outpost	22-9-0 31	15-0-0 15	0-14-0 14	12-7-0 19	0-0-0 0	0-0-0 0	0-0-0 0
85-1 Sky Blue Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
85-10 Nathan's Meadow	117-0-0 117	47-0-19 66	46-0-19 65	24-7-20 51	103-6-90 199	52-32-63 147	55-0-0 55
85-2 Miter Basin Meadows	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
85-3 Lower Miter Basin Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
85-4 Penned-up Meadow	62-0-20 82	12-0-20 32	19-0-19 38	81-0-40 121	32-0-39 71	0-0-0 0	0-0-0 0
85-5 Upper Soldier Lake Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-2-0 2	0-0-0 0	0-0-0 0

Appendix 2: Reported Stock Use by Meadow Forage Area (including pellet nights)

Commercial-Private-Administrative|Total Stock Nights

		2005	2004	2003	2002	2001	2000	1999
85-6	Lower Soldier Lake Mdws	0-0-0 0	0-0-0 0	0-0-0 0	0-8-0 8	0-0-0 0	0-0-0 0	0-0-0 0
85-7	New Army Pass Jct Mdws	0-0-0 0	0-8-0 8	51-0-0 51	0-0-0 0	19-0-0 19	0-0-0 0	0-0-0 0
85-8	Lower Rock Creek Lk Mdw	59-0-0 59	129-10-20 159	41-6-0 47	0-0-0 0	63-0-0 63	21-0-0 21	8-0-21 29
85-9	Rock Creek Meadow #2	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
86-1	Kern Bridge Camp	8-0-124 132	0-2-262 264	0-14-286 300	0-20-300 320	0-0-257 257	8-0-37 45	0-0-168 168
86-2	Upper Funston Meadow	127-16-21 164	32-96-49 177	0-28-23 51	39-86-38 163	50-37-27 114	14-48-10 72	119-63-140 322
86-3	Big Arroyo Confluence	0-0-0 0	0-7-0 7	0-0-0 0	0-0-0 0	0-0-168 168	4-0-0 4	0-0-108 108
86-4	21" Camp, Rattlesnake Cre	7-0-0 7	0-14-0 14	40-7-0 47	68-0-0 68	9-0-0 9	12-18-0 30	0-0-32 32
86-5	Lower Funston Meadow	131-0-19 150	39-16-4 59	40-38-0 78	85-80-0 165	65-26-0 91	28-2-0 30	171-46-0 217
86-6	Snake Camp, River Pasture	0-0-0 0	0-12-0 12	0-0-0 0	0-0-0 0	0-0-0 0	0-18-0 18	126-23-0 149
86-7	Lewis Camp Large Pasture	8-0-210 218	8-0-363 371	2-6-522 530	4-14-499 517	19-25-630 674	33-0-551 584	222-91-492 805
86-8	Kern Station Small Pastur	0-0-26 26	0-0-11 11	39-0-100 139	22-0-70 92	0-12-122 134	4-0-102 106	0-9-92 101
87-1	Upper Big Arroyo	0-0-77 77	8-6-0 14	0-9-0 9	0-8-0 8	0-0-0 0	14-0-72 86	0-0-0 0
87-10	Sky Parlor Meadow	22-0-36 58	0-22-3 25	0-5-0 5	8-2-36 46	0-0-0 0	0-0-0 0	0-0-0 0
87-2	Little Upper Big Arroyo	0-0-0 0	0-0-0 0	0-0-110 110	0-0-0 0	0-0-0 0	7-0-0 7	0-0-0 0
87-3	Big Arroyo Patrol Cabin	0-0-0 0	14-0-0 14	0-5-44 49	0-0-170 170	0-0-0 0	0-0-0 0	0-0-0 0
87-4	Lower Big Arroyo	12-0-0 12	0-0-216 216	0-14-0 14	0-0-5 5	0-0-0 0	10-0-152 162	0-0-0 0
87-5	Chagoopa Plateau Mdw #1	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
87-6	Chagoopa Plateau Mdw #2	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
87-7	Chagoopa Plateau Mdw #3	12-0-0 12	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
87-8	Chagoopa Plateau Mdw #4	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
87-9	Chagoopa Plateau Treehous	4-0-0 4	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
88-1	L. Little 5 Lks (Long Lak	0-0-0 0	0-0-0 0	0-14-18 32	58-0-0 58	10-0-0 10	7-0-0 7	0-0-0 0
88-2	U. Little 5 Lks (R.S. Mdw	0-0-0 0	0-0-3 3	0-0-0 0	8-3-0 11	8-3-0 11	0-4-0 4	0-0-0 0
88-3	Big 5 Lakes Lower Mdw	0-0-0 0	0-0-0 0	0-0-0 0	6-6-0 12	0-3-0 3	6-4-0 10	0-0-0 0
88-4	Big 5 Lakes Upper Mdw	24-0-0 24	0-0-0 0	0-3-0 3	16-0-0 16	16-0-0 16	22-0-0 22	0-0-0 0
88-5	Big 5 Lakes Upper Stringe	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0

Appendix 2: Reported Stock Use by Meadow Forage Area (including pellet nights)

Commercial-Private-Administrative|Total Stock Nights

		2005	2004	2003	2002	2001	2000	1999
89-1	Spring Lk/Glacier Pass Md	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
89-10	Cow Camp	0-0-6 6	0-0-0 0	0-0-3 3	0-0-0 0	0-0-0 0	0-8-85 93	4-0-120 124
89-11	Laurel Creek Basin	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
89-12	Crytes Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	32-0-0 32
89-13	Coyote Creek Meadows	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	12-0-0 12
89-2	Upper Lost Canyon Meadows	0-0-0 0	0-0-76 76	0-0-0 0	5-0-0 5	0-0-0 0	0-0-0 0	0-0-0 0
89-3	Lower Lost Canyon Mdws	0-0-72 72	0-0-0 0	0-14-69 83	0-0-0 0	13-0-168 181	0-0-100 100	0-0-0 0
89-4	Soda Creek Canyon	0-0-0 0	0-0-0 0	0-0-0 0	8-0-0 8	0-0-0 0	11-0-0 11	0-0-0 0
89-5.1	Forester Lake Bench Mdws	0-0-0 0	0-0-0 0	0-0-0 0	0-9-0 9	0-3-0 3	22-0-0 22	0-1-0 1
89-5.2	Forester Lake Meadows	0-0-0 0	0-0-0 0	0-0-0 0	0-9-0 9	0-0-0 0	0-2-0 2	0-0-0 0
89-5.3	Forester Lake Pocket Mdw	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
89-6	Upper Rattlesnake Canyon	0-0-26 26	0-0-8 8	0-6-36 42	29-0-6 35	0-0-0 0	4-0-3 7	0-1-168 169
89-7	Shotgun Pass Meadow	0-0-0 0	0-0-0 0	0-0-5 5	21-0-0 21	13-5-0 18	6-0-0 6	0-0-0 0
89-8	South Rattlesnake Canyon	0-0-0 0	0-0-0 0	0-0-0 0	3-0-0 3	28-0-0 28	0-0-0 0	0-0-0 0
89-9	Middle Rattlesnake Canyon	0-0-162 162	0-0-136 136	0-0-128 128	0-12-134 146	0-0-152 152	4-8-48 60	0-0-5 5
90-1	Horse Creek Meadows	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-4-0 4	0-0-0 0
90-10	South Fork Meadow	119-0-0 119	102-0-0 102	159-130-0 289	246-77-0 323	118-20-0 138	122-18-0 140	60-0-0 60
90-11	South Fork Pasture	0-0-0 0	0-28-0 28	30-92-0 122	152-28-0 180	69-38-0 107	100-0-0 100	84-0-0 84
90-12	Blossom Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
90-13	Slim's Meadow	0-0-0 0	0-0-67 67	0-0-180 180	0-0-89 89	0-0-0 0	0-0-138 138	0-0-0 0
90-14	Green Meadow	0-0-0 0	0-1-0 1	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
90-15	Tuohy Meadows	0-0-0 0	0-0-0 0	0-10-0 10	0-0-0 0	0-33-0 33	0-0-0 0	0-0-0 0
90-16	Summit Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
90-17	Cyclone Meadow	0-0-0 0	14-0-0 14	0-0-0 0	4-0-0 4	0-0-0 0	0-0-0 0	0-0-0 0
90-18	Summit Lake Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-10-0 10	0-0-0 0	0-0-0 0
90-19	Quinn Meadow	0-0-8 8	0-0-5 5	0-20-11 31	0-7-33 40	0-0-2 2	0-0-7 7	0-0-15 15
90-2	Ansel Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0

Appendix 2: Reported Stock Use by Meadow Forage Area (including pellet nights)

Commercial-Private-Administrative|Total Stock Nights

	2005	2004	2003	2002	2001	2000	1999
90-3 Evelyn Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
90-4 Cow Camp	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-2-0 2	0-0-0 0
90-5.1 Hockett Meadow	0-0-132 132	20-61-273 354	0-97-226 323	0-8-336 365	0-0-342 342	0-2-79 81	0-6-374 380
90-5.2 Hockett Pasture	0-4-55 59	0-0-164 164	0-0-66 66	0-0-104 104	0-0-24 24	0-0-308 308	0-0-98 98
90-6 Sand Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
90-7 Mitchell Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
90-8 Tuohy Ck/S. Fk Kaweah	0-0-0 0	0-0-0 0	0-4-0 4	48-5-0 53	30-0-0 30	0-6-0 6	0-0-0 0
90-9 Lower South Fork Meadow	0-0-0 0	30-0-0 30	30-53-0 83	12-48-0 60	0-3-0 3	0-20-0 20	0-0-0 0
91-1 Ladybug Camp	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
91-2 Whiskey Log Camp	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
91-3 Cahoon Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
92-1 Monarch Lakes	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
92-2 Crystal Lakes, Cobalt Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
92-3 Franklin Lakes	0-0-0 0	0-0-0 0	0-0-0 0	0-5-0 5	0-13-0 13	0-0-0 0	0-1-0 1
93-1 White Chief Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
93-2 Eagle Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
93-3 Mosquito Lakes	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
94-1 Mineral Lakes	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
95-1 Redwood Canyon	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-3-0 3
96-1 North Fork Kaweah River	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0